	Application No.	Applicant(s)
	10/744 009	TOMOTO ET AL
Notice of Allowability	10/744,008 Examiner	TOMOTO ET AL.
·		
	Satya B. Sastri	1713
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatior GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>March 16, 2006</u> .		
2.  ☐ The allowed claim(s) is/are 1-11.		
3. ☑ Acknowledgment is made of a claim for foreign priority un  a) ☑ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have		
2. Certified copies of the priority documents have		
3. Copies of the certified copies of the priority doc	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINER is reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF tion is deficient.
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.	•
(a) I including changes required by the Notice of Draftspers		948) attached
1) hereto or 2) to Paper No./Mail Date	· · · · · · · · · · · · · · · · · · ·	•
(b) including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT f</li> </ol>	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.  Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dai 8), 7. <b>☑</b> Examiner's Amendr	
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
• · · · · · · · · · · · · · · · · · · ·	9.  Other	

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## EXAMINER'S COMMENT/REASONS FOR ALLOWANCE

1. All previous rejections have been overcome by the amendment filed on March 16, 2006 and the rejections are withdrawn. *Claims 1-11* are now pending in the application.

## Reasons For Allowance

- 2. *Claims 1-11* are allowed.
- 3. The following is an Examiner's Statement of Reasons for Allowance:

The instant claims are allowable over prior art to Hiroko et al. (JP 11130876, Machine Translation).

The present claims are directed to a sliding element comprising a carbon matrix formed by firing a matrix comprising 25 to 75 wt.% carbon aggregate and 20-50% by wt. of thermosetting synthetic resin binder, wherein the sliding element further includes isolated scattered spherical pores having a diameter in a range of from 1 to 100 µm and concaves formed on a carbon sliding face.

Hiroko et al. disclose a sliding member comprising a resin composite having excellent abrasion resistance and comprising 30-70 volume % of fibrous filler made of carbon fiber or organic fiber and 70-30 volume % of thermosetting resin and uniformly arranged pores on the sliding face. Pore area ratio is interpreted as being in the range of 3-30% and the pore pitch diameter on the sliding surface is in the range of 15-80 micrometers.

Demendi et al. disclose composition for use in tribological applications such as in mechanical seals, bearings and other sliding or rubbing components. The composition comprises one compound selected from the group consisting of amorphous carbon, graphitic carbon, petroleum coke etc. in the range of 40-75% by wt., 25-50 wt.% of at least one binder. The raw material is mixed and molded in a furnace and may be further heat-treated by baking to carbonize the binder in an inert atmosphere.

Neither art of record teach or suggest sliding elements comprising isolated, scattered spherical pores in the carbon matrix with concaves formed on a carbon sliding surface as claimed instantly. Therefore, the instantly claimed invention is deemed allowable over closest prior art of record as per said art neither anticipating nor rendering, alone or in combination, the instantly claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

## Future Correspondence

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Satya Sastri whose telephone number is 571-272-1112.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 571-272-1114. The fax phone numbers for the

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organization where this application or proceeding is assigned is (571) 273 8300 for regular communications. The unofficial direct fax phone number to the Examiner's desk is 571-273-1112.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SATYA SASTRI

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May 1, 2006

DAVID W. WU